

FLUORESCENT LAMP WITH SINGLE PHOSPHOR LAYER

ABSTRACT OF DISCLOSURE

A fluorescent lamp (10) includes a coating (16) comprising a blue-green emitting halophosphate in combination with rare-earth phosphors, such as a red-emitting rare earth phosphor and a green-emitting rare earth phosphor. The blue-green emitting halophosphate replaces some or all of the blue-emitting rare earth phosphor conventionally used in lamps designed to have a high color rendition index (CRI). This combination of phosphors is preferably blended with a white-emitting halophosphate in a ratio of about 1:3, providing a blend which is suitable for providing a single coating layer for the lamp. The single layer coated lamp has a CRI which is comparable to that of a lamp formed with a conventional two phosphor layer coating process, without appreciably increasing the content of rare earth phosphors used.